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(54) **SYNTHETIC PLATELETS**

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(58) **Field of Classification Search**

None

See application file for complete search history.

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(57) **ABSTRACT**

A synthetic platelet includes a biocompatible flexible nano-  
particle that includes an outer surface and a plurality of  
peptides conjugated to the surface, the peptides including a  
plurality of von Willebrand factor-binding peptides (VBPs),  
collagen-binding peptides (CBPs) and an active platelet  
GPIIb-IIIa-binding peptides (GBPs).

**30 Claims, 11 Drawing Sheets**